

The following is a stream of consciousness two-page list of keywords you should be familiar with for the final exam. They do not follow any order.

- Planet (wanderer)
- retrograde motion
- Aristotle's arrangement
- epicycle
- deferent, eccentric, equant
- Ptolemy
- The Greek approach to the size of the universe
- Copernicus
- Tycho
- Kepler
- hypothesis
- saving the appearances
- Ptolemy's cosmology
- models
- ellipses
- Kepler's three laws
- Galileo and the tides
- nested spheres
- angular diameter
- inertia
- Galileo
- Newton
- trial of Galileo
- *Dialog of Galileo*
- *de Revolutionibus*
- *Almagest*
- *Planetary Hypothesis*
- Copernicus' cosmology
- Tycho's cosmology

- annual stellar parallax
- radians, degrees, minutes, seconds
- angular resolution
- logarithmic scales (dB, magnitudes)
- magnitude
- intensity
- luminosity
- inverse-square law
- distance ladder
  - (what's actually measured)
- H-R diagram
- variable stars (RR Lyrae, cepheids)
- period-luminosity
- nebulae
- the Great Debate
- wavelength, frequency, velocity
- Doppler effect
- redshift
- Hubble's law
- Hubble diagram
- Expansion (Hubble) age
- Cosmological principle
- Center and edge of the universe
- Expansion without a center
- Expansion without an edge
- Geometry and curvature
- radioactive decay
- radio dating
- blue shift for nearby galaxies
- Cosmology before & after 1905
- Cosmological constant
- Background radiation
- decrease of temperature
- big-bang nucleosynthesis
- evidence for dark matter
- evidence for dark energy